

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P200672

Luminaire Tested: **GWC-AF-02-LED-E1-T3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-T3-8030  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10139 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



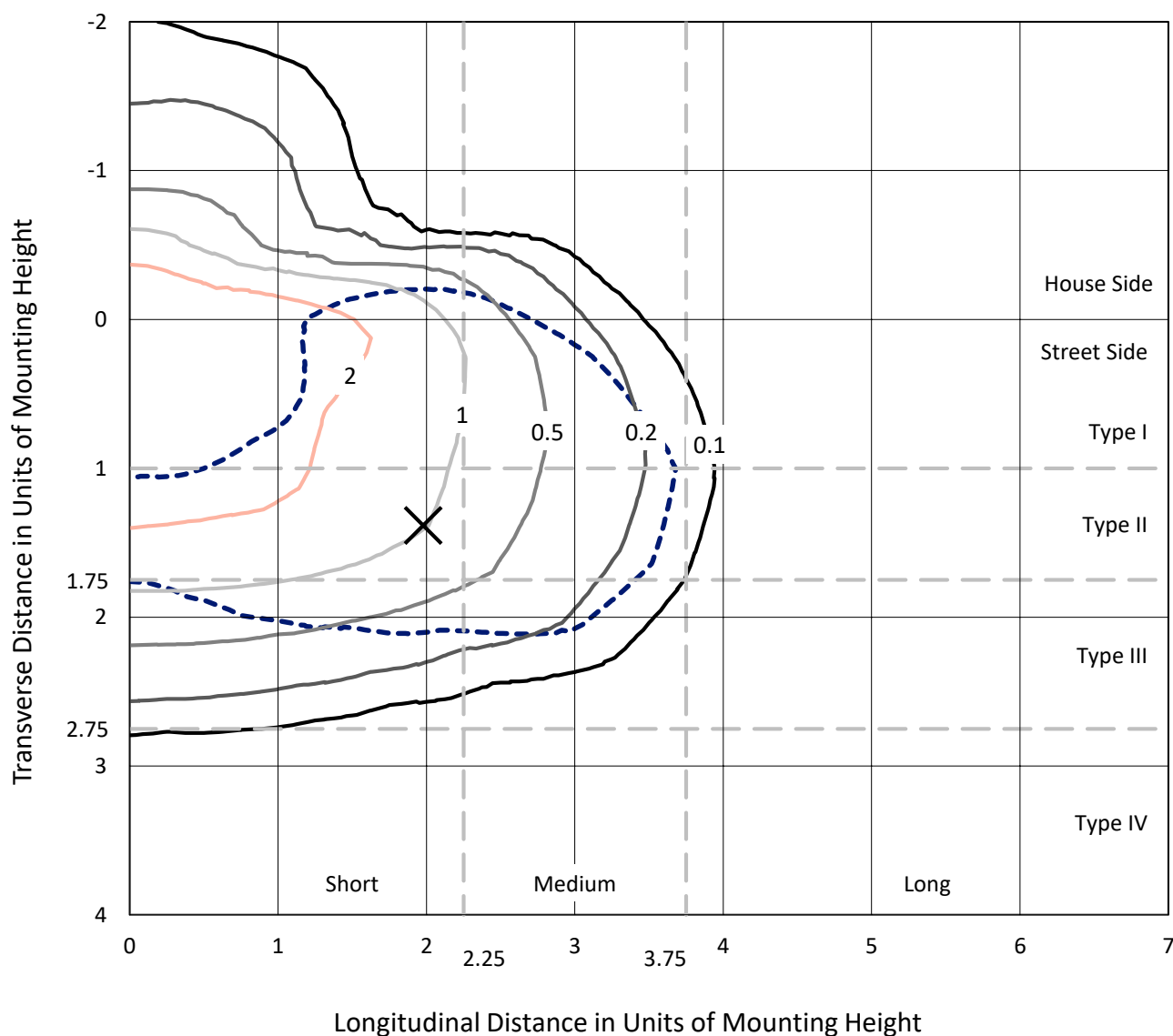
REPORT NUMBER: P200672

CATALOG NUMBER: GWC-AF-02-LED-E1-T3-8030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

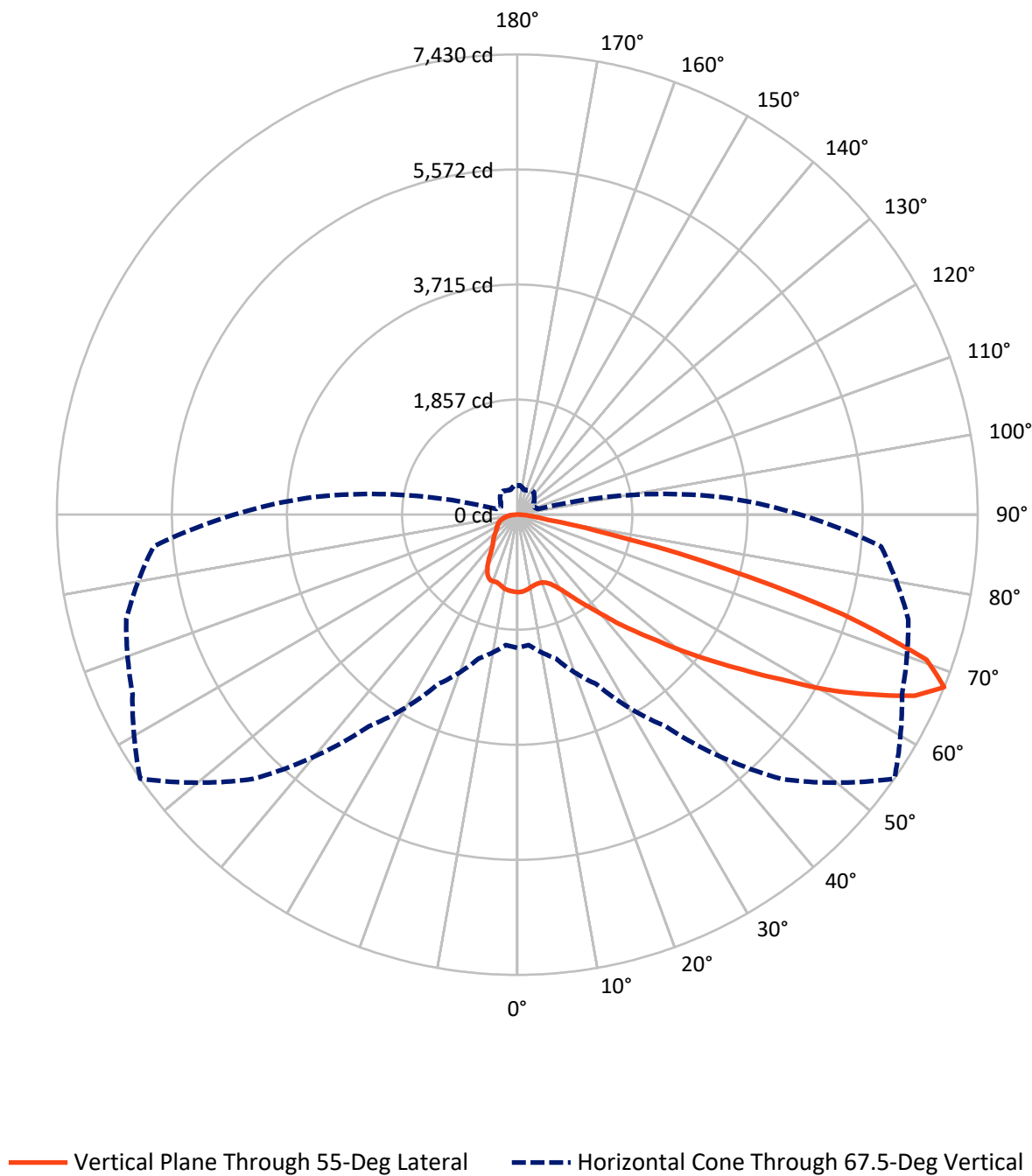


Based on 20 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P200672

CATALOG NUMBER: GWC-AF-02-LED-E1-T3-8030

## Luminous Intensity Polar Plot



REPORT NUMBER: P200672

CATALOG NUMBER: GWC-AF-02-LED-E1-T3-8030

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2190.2   | 0.0    | 2190.2  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 7948.8   | 0.0    | 7948.8  |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 10139.0  | 0.0    | 10139.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 116.7   | 1.2       |
| 10°-20°   | 330.5   | 3.3       |
| 20°-30°   | 553.6   | 5.5       |
| 30°-40°   | 910.4   | 9.0       |
| 40°-50°   | 1532.5  | 15.1      |
| 50°-60°   | 2412.1  | 23.8      |
| 60°-70°   | 2878.5  | 28.4      |
| 70°-80°   | 1236.1  | 12.2      |
| 80°-90°   | 168.5   | 1.7       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 10139.0 | 100.0     |
| 0°-180°   | 10139.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P200672

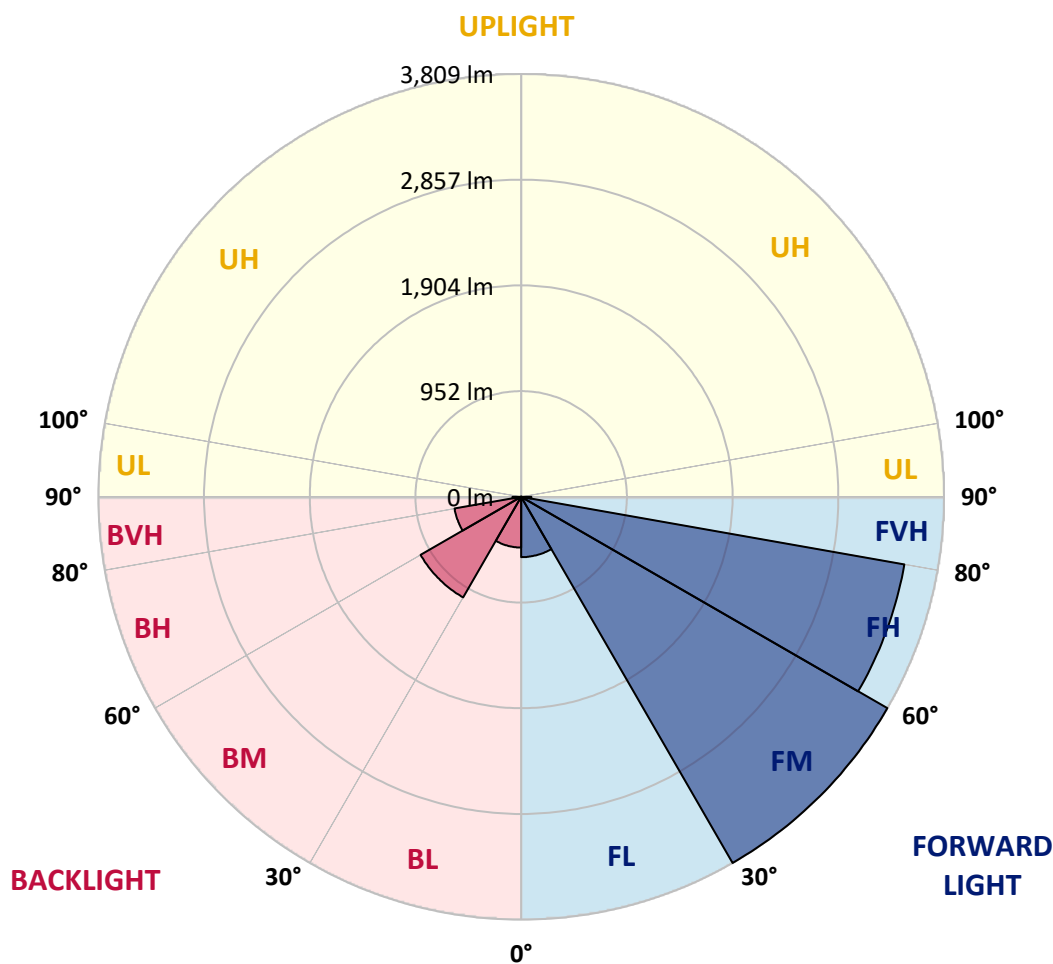
CATALOG NUMBER: GWC-AF-02-LED-E1-T3-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 543.5  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 3809.0 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 3505.1 | 34.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 91.2   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 457.4  | 4.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1046.0 | 10.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 609.5  | 6.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 77.3   | 0.8       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Short



REPORT NUMBER: P200672

CATALOG NUMBER: GWC-AF-02-LED-E1-T3-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 |
| 2.5°  | 1239.5 | 1240.0 | 1240.9 | 1244.9 | 1248.3 | 1247.3 | 1247.8 | 1245.8 | 1245.4 | 1242.4 | 1245.4 |
| 5°    | 1223.8 | 1225.3 | 1225.8 | 1232.1 | 1236.0 | 1237.0 | 1235.6 | 1233.1 | 1230.2 | 1227.2 | 1228.7 |
| 7.5°  | 1188.1 | 1192.0 | 1192.5 | 1201.3 | 1207.6 | 1216.0 | 1216.5 | 1216.9 | 1215.5 | 1213.5 | 1216.5 |
| 10°   | 1165.5 | 1166.5 | 1166.0 | 1172.4 | 1177.3 | 1186.6 | 1192.0 | 1201.3 | 1205.2 | 1206.2 | 1208.1 |
| 12.5° | 1164.1 | 1163.1 | 1161.6 | 1161.6 | 1160.1 | 1164.1 | 1173.9 | 1187.1 | 1196.4 | 1199.3 | 1201.8 |
| 15°   | 1179.7 | 1179.2 | 1174.3 | 1167.0 | 1157.7 | 1154.8 | 1163.1 | 1177.8 | 1190.0 | 1196.4 | 1198.8 |
| 17.5° | 1215.0 | 1212.1 | 1204.2 | 1187.6 | 1167.5 | 1159.7 | 1160.6 | 1172.9 | 1187.1 | 1195.4 | 1197.8 |
| 20°   | 1279.6 | 1279.6 | 1263.0 | 1231.6 | 1195.9 | 1177.3 | 1168.5 | 1175.8 | 1189.5 | 1200.8 | 1204.2 |
| 22.5° | 1391.3 | 1392.3 | 1364.4 | 1312.9 | 1252.7 | 1213.0 | 1191.0 | 1189.5 | 1205.7 | 1218.4 | 1222.3 |
| 25°   | 1549.5 | 1545.5 | 1506.4 | 1432.9 | 1341.3 | 1275.7 | 1237.5 | 1228.7 | 1242.4 | 1256.6 | 1261.5 |
| 27.5° | 1733.6 | 1719.4 | 1672.9 | 1584.2 | 1465.7 | 1369.7 | 1311.0 | 1296.8 | 1310.0 | 1326.2 | 1331.1 |
| 30°   | 1915.8 | 1901.1 | 1845.7 | 1748.8 | 1617.0 | 1495.6 | 1411.4 | 1388.3 | 1407.0 | 1430.0 | 1432.9 |
| 32.5° | 2098.0 | 2098.0 | 2036.2 | 1923.1 | 1779.6 | 1645.9 | 1545.1 | 1517.6 | 1548.5 | 1576.4 | 1582.8 |
| 35°   | 2315.9 | 2316.9 | 2257.1 | 2121.0 | 1966.7 | 1825.2 | 1714.0 | 1693.9 | 1740.5 | 1760.0 | 1775.2 |
| 37.5° | 2583.8 | 2589.1 | 2512.3 | 2347.7 | 2178.8 | 2029.9 | 1897.7 | 1870.2 | 1916.8 | 1970.1 | 2019.1 |
| 40°   | 2873.2 | 2880.0 | 2795.3 | 2592.6 | 2423.6 | 2267.9 | 2124.9 | 2075.4 | 2152.8 | 2254.7 | 2317.8 |
| 42.5° | 3149.4 | 3184.6 | 3102.9 | 2894.2 | 2712.5 | 2551.4 | 2406.5 | 2334.5 | 2431.4 | 2585.2 | 2640.1 |
| 45°   | 3548.5 | 3574.0 | 3431.5 | 3242.4 | 3071.5 | 2891.3 | 2699.3 | 2623.4 | 2759.1 | 2953.0 | 2964.3 |
| 47.5° | 3814.4 | 3795.3 | 3722.8 | 3605.3 | 3497.1 | 3328.6 | 3039.7 | 2956.4 | 3136.6 | 3364.9 | 3301.7 |
| 50°   | 3955.9 | 3961.8 | 3952.0 | 3958.9 | 3962.8 | 3857.0 | 3456.9 | 3342.8 | 3557.8 | 3833.5 | 3688.1 |
| 52.5° | 4088.2 | 4049.0 | 4081.3 | 4241.9 | 4435.9 | 4396.7 | 3910.9 | 3791.9 | 4009.3 | 4353.6 | 4096.5 |
| 55°   | 4085.2 | 4025.5 | 4130.8 | 4414.3 | 4835.0 | 4880.0 | 4420.7 | 4283.6 | 4486.8 | 4911.4 | 4529.4 |
| 57.5° | 3940.8 | 3943.7 | 4105.8 | 4477.0 | 5113.1 | 5334.5 | 5012.3 | 4806.6 | 4993.2 | 5476.5 | 4924.6 |
| 60°   | 3741.9 | 3768.9 | 4002.5 | 4466.7 | 5336.0 | 5707.2 | 5738.0 | 5370.2 | 5489.2 | 5990.2 | 5251.7 |
| 62.5° | 3421.2 | 3449.6 | 3771.8 | 4360.0 | 5302.2 | 6066.1 | 6394.2 | 6009.8 | 6007.9 | 6301.7 | 5347.7 |
| 65°   | 2915.3 | 2907.0 | 3245.4 | 3960.8 | 5018.6 | 6331.6 | 7046.1 | 6562.7 | 6398.7 | 6306.6 | 5154.8 |
| 67.5° | 2149.9 | 2112.6 | 2403.0 | 3016.7 | 4171.4 | 6034.3 | 7429.5 | 6850.7 | 6531.9 | 5891.8 | 4565.1 |
| 70°   | 1115.6 | 1078.4 | 1313.4 | 1761.5 | 2743.4 | 4709.6 | 7004.9 | 6701.8 | 6237.5 | 4938.8 | 3576.4 |
| 72.5° | 477.0  | 470.6  | 566.1  | 772.8  | 1327.1 | 2716.5 | 5492.7 | 5800.7 | 5352.1 | 3679.7 | 2458.9 |
| 75°   | 320.8  | 318.8  | 354.6  | 421.2  | 597.0  | 1102.4 | 3437.3 | 4117.5 | 3915.8 | 2281.6 | 1383.0 |
| 77.5° | 251.7  | 249.3  | 270.3  | 302.6  | 386.9  | 434.9  | 1525.5 | 2210.6 | 2046.0 | 993.1  | 605.3  |
| 80°   | 196.9  | 194.9  | 208.1  | 225.8  | 278.2  | 274.2  | 502.0  | 879.5  | 680.7  | 380.5  | 294.3  |
| 82.5° | 155.2  | 155.2  | 166.0  | 166.5  | 197.4  | 187.1  | 262.0  | 387.4  | 339.9  | 221.8  | 180.2  |
| 85°   | 142.0  | 142.0  | 153.3  | 124.4  | 128.8  | 118.0  | 162.6  | 229.7  | 215.5  | 91.1   | 78.4   |
| 87.5° | 71.5   | 69.5   | 128.8  | 110.2  | 70.0   | 62.7   | 79.3   | 111.2  | 119.5  | 50.4   | 39.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P200672

CATALOG NUMBER: GWC-AF-02-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 | 1250.2 |
| 2.5°  | 1244.4 | 1243.9 | 1244.9 | 1245.4 | 1249.3 | 1254.7 | 1257.1 | 1260.5 | 1262.5 | 1261.5 |
| 5°    | 1229.7 | 1230.7 | 1234.6 | 1237.5 | 1244.4 | 1253.2 | 1258.1 | 1262.0 | 1265.4 | 1264.0 |
| 7.5°  | 1217.4 | 1219.9 | 1225.8 | 1228.2 | 1232.1 | 1234.6 | 1234.1 | 1235.6 | 1238.5 | 1235.1 |
| 10°   | 1210.6 | 1213.5 | 1217.9 | 1214.5 | 1205.2 | 1192.0 | 1179.7 | 1173.4 | 1175.3 | 1172.9 |
| 12.5° | 1203.7 | 1207.6 | 1204.2 | 1188.1 | 1162.1 | 1145.0 | 1135.7 | 1136.6 | 1141.0 | 1142.0 |
| 15°   | 1199.8 | 1201.3 | 1186.6 | 1156.2 | 1129.8 | 1127.3 | 1132.2 | 1131.2 | 1131.7 | 1131.7 |
| 17.5° | 1199.8 | 1195.9 | 1168.5 | 1138.1 | 1126.8 | 1122.4 | 1107.3 | 1088.2 | 1079.8 | 1076.9 |
| 20°   | 1206.2 | 1195.9 | 1162.6 | 1142.5 | 1118.0 | 1080.3 | 1040.2 | 1004.9 | 989.2  | 984.8  |
| 22.5° | 1225.3 | 1207.6 | 1179.2 | 1144.5 | 1074.9 | 1011.8 | 948.1  | 906.0  | 877.6  | 872.7  |
| 25°   | 1264.0 | 1244.4 | 1212.1 | 1118.5 | 1006.4 | 916.3  | 843.8  | 796.8  | 768.4  | 764.4  |
| 27.5° | 1331.5 | 1318.8 | 1229.7 | 1061.2 | 915.3  | 818.8  | 751.7  | 715.5  | 694.4  | 693.0  |
| 30°   | 1433.4 | 1427.0 | 1220.9 | 976.5  | 803.1  | 724.3  | 692.0  | 670.9  | 655.2  | 654.8  |
| 32.5° | 1596.0 | 1544.6 | 1192.0 | 873.2  | 700.8  | 657.2  | 644.0  | 631.2  | 619.0  | 619.0  |
| 35°   | 1805.1 | 1639.6 | 1137.1 | 762.5  | 638.6  | 620.0  | 603.3  | 583.3  | 567.1  | 566.1  |
| 37.5° | 2050.9 | 1698.3 | 1038.7 | 673.4  | 609.2  | 595.0  | 570.5  | 540.6  | 512.2  | 507.3  |
| 40°   | 2299.2 | 1716.0 | 900.1  | 618.5  | 590.6  | 570.0  | 540.2  | 504.9  | 477.5  | 476.0  |
| 42.5° | 2526.9 | 1682.2 | 753.2  | 580.8  | 572.0  | 544.6  | 513.2  | 481.9  | 460.3  | 459.8  |
| 45°   | 2717.9 | 1594.5 | 629.8  | 545.1  | 552.4  | 521.5  | 493.6  | 468.2  | 451.5  | 448.1  |
| 47.5° | 2897.7 | 1470.6 | 543.1  | 507.3  | 532.8  | 508.8  | 485.3  | 461.3  | 445.2  | 442.7  |
| 50°   | 3106.3 | 1336.9 | 482.4  | 470.6  | 515.7  | 504.4  | 492.2  | 467.2  | 440.3  | 437.3  |
| 52.5° | 3359.0 | 1221.4 | 434.9  | 438.3  | 502.5  | 510.3  | 509.8  | 483.8  | 436.8  | 432.9  |
| 55°   | 3641.1 | 1093.1 | 399.1  | 411.9  | 497.1  | 521.1  | 514.2  | 499.5  | 439.8  | 433.9  |
| 57.5° | 3918.7 | 943.2  | 374.1  | 391.8  | 489.2  | 520.1  | 493.1  | 472.1  | 446.6  | 438.3  |
| 60°   | 4126.9 | 741.9  | 355.0  | 374.1  | 472.1  | 503.9  | 470.1  | 442.2  | 445.2  | 438.8  |
| 62.5° | 4140.6 | 573.5  | 332.0  | 359.0  | 446.1  | 487.8  | 454.9  | 429.0  | 451.5  | 445.6  |
| 65°   | 3897.2 | 433.4  | 310.0  | 340.8  | 418.2  | 477.5  | 440.3  | 421.6  | 464.7  | 458.4  |
| 67.5° | 3281.1 | 348.7  | 291.4  | 322.2  | 390.3  | 455.9  | 427.0  | 414.8  | 476.5  | 465.2  |
| 70°   | 2368.8 | 297.3  | 273.3  | 299.7  | 365.3  | 431.4  | 415.3  | 402.5  | 444.7  | 427.0  |
| 72.5° | 1458.4 | 257.6  | 252.7  | 269.8  | 346.2  | 406.0  | 397.7  | 379.5  | 400.6  | 386.4  |
| 75°   | 728.2  | 223.3  | 229.7  | 240.5  | 319.3  | 377.1  | 368.3  | 350.1  | 353.1  | 350.1  |
| 77.5° | 348.7  | 191.0  | 202.7  | 211.1  | 284.5  | 344.3  | 335.0  | 316.4  | 312.9  | 313.4  |
| 80°   | 220.9  | 159.6  | 170.9  | 176.8  | 254.2  | 306.1  | 296.8  | 278.2  | 317.3  | 294.3  |
| 82.5° | 138.1  | 129.8  | 132.7  | 143.5  | 221.4  | 266.4  | 254.2  | 237.5  | 286.0  | 226.2  |
| 85°   | 76.4   | 90.6   | 94.5   | 103.8  | 170.4  | 222.8  | 210.6  | 189.5  | 169.9  | 167.0  |
| 87.5° | 45.5   | 53.9   | 55.3   | 62.2   | 114.6  | 161.1  | 142.5  | 135.2  | 112.1  | 111.7  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)